

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> DECLARE
  2  V_Number NUMBER(2) := 1;
  3  V_Output VARCHAR2(100);
  4  BEGIN
  5    WHILE V_Number <= 5
  6    LOOP
  7      V_Output := V_Output || ' ' || V_Number;
  8      V_Number := V_Number + 1;
  9    END LOOP;
 10  DBMS_OUTPUT.PUT_LINE(V_Output);
 11  END;
 12  /
```

PL/SQL procedure successfully completed.

SQL> SET SERVEROUTPUT ON

SQL> /

1 2 3 4 5

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
  1  DECLARE
  2  V_Number NUMBER(2) := 1;
  3  V_Output VARCHAR2(100);
  4  BEGIN
  5    WHILE V_Number <= 5
  6    LOOP
  7      V_Output := V_Output || ' ' || V_Number;
  8      V_Number := V_Number + 1;
  9      DBMS_OUTPUT.PUT_LINE(V_Output);
 10  END LOOP;
11* END;
```

SQL> /

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

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```
1 DECLARE
2 V_Number NUMBER(2) := 1;
3 V_Output VARCHAR2(100);
4 BEGIN
5 WHILE V_Number <= 5
6 LOOP
7 V_Output := V_Output || ' *';
8 V_Number := V_Number + 1;
9 DBMS_OUTPUT.PUT_LINE(V_Output);
10 END LOOP;
11* END;
SQL> /
```

```
*
* *
* * *
* * * *
* * * * *
```

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

```
1 DECLARE
2 V_Num NUMBER;
3 V_Position NUMBER;
4 V_Result NUMBER := 0;
5 BEGIN
6 V_Num := &NumberToReverse;
7 WHILE V_Num > 0
8 LOOP
9 V_Position := MOD(V_Num, 10);
10 V_Result := (V_Result * 10) + V_Position;
11 V_Num := TRUNC(V_Num / 10);
12 END LOOP;
13 DBMS_OUTPUT.PUT_LINE('The Reverse of the Entered Number is : ');
14 DBMS_OUTPUT.PUT_LINE(V_Result);
15* END;
```

```
SQL> /
Enter value for numbertoreverse: 1234
The Reverse of the Entered Number is :
4321
```

PL/SQL procedure successfully completed.

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```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_MyDate1 DATE := '&GiveDate1';
3  V_MyDate2 DATE := '&GiveDate2';
4  BEGIN
5  WHILE V_MyDate1 <= V_MyDate2
6  LOOP
7      DBMS_OUTPUT.PUT_LINE(TO_CHAR(V_MyDate1, 'Month'));
8      V_MyDate1 := ADD_MONTHS(V_MyDate1, 1);
9  END LOOP;
10* END;
SQL> cl scr
```

```
SQL> R
1  DECLARE
2  V_MyDate1 DATE := '&GiveDate1';
3  V_MyDate2 DATE := '&GiveDate2';
4  BEGIN
5  WHILE V_MyDate1 <= V_MyDate2
6  LOOP
7      DBMS_OUTPUT.PUT_LINE(TO_CHAR(V_MyDate1, 'Month'));
8      V_MyDate1 := ADD_MONTHS(V_MyDate1, 1);
9  END LOOP;
10* END;
```

```
Enter value for givedate1: 01-JAN-14
Enter value for givedate2: 01-DEC-14
January
February
March
April
May
June
July
August
September
October
November
December
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_MyDate1 DATE := '&GiveDate1';
```

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```
3  V_MyDate2 DATE := '&GiveDate2';
4  V_Abnormal VARCHAR2(10) := INITCAP('&GiveMonth');
5  BEGIN
6    WHILE V_MyDate1 <= V_MyDate2
7    LOOP
8      DBMS_OUTPUT.PUT_LINE(TO_CHAR(V_MyDate1, 'Month'));
9      V_MyDate1 := ADD_MONTHS(V_MyDate1, 1);
10   EXIT WHEN TO_CHAR(V_MyDate1, 'Month') = V_Abnormal;
11   END LOOP;
12* END;
SQL> /
```

Enter value for givedate1: 01-JAN-14

Enter value for givedate2: 01-DEC-14

Enter value for givemonth: July

January

February

March

April

May

June

July

August

September

October

November

December

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_MyDate1 DATE := '&GiveDate1';
3  V_MyDate2 DATE := '&GiveDate2';
4  V_Abnormal VARCHAR2(10) := INITCAP('&GiveMonth');
5  BEGIN
6    WHILE V_MyDate1 <= V_MyDate2
7    LOOP
8      DBMS_OUTPUT.PUT_LINE(TO_CHAR(V_MyDate1, 'Month'));
9      V_MyDate1 := ADD_MONTHS(V_MyDate1, 1);
10   EXIT WHEN TO_CHAR(V_MyDate1, 'FMMonth') = V_Abnormal;
11   END LOOP;
12* END;
SQL> /
```

Enter value for givedate1: July

Enter value for givedate2:

Enter value for givemonth:

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```
V_Abnormal VARCHAR2(10) := INITCAP('');
*
```

ERROR at line 4:

ORA-01858: a non-numeric character was found where a numeric was expected
ORA-06512: at line 2

SQL> /

Enter value for givedate1: 01-JAN-14

Enter value for givedate2: 01-DEC-14

Enter value for givemonth: July

January

February

March

April

May

June

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_MyDate1 DATE := '&GiveDate1';
3  V_MyDate2 DATE := '&GiveDate2';
4  V_Abnormal VARCHAR2(10) := INITCAP('&GiveMonth');
5  BEGIN
6  WHILE V_MyDate1 <= V_MyDate2
7  LOOP
8  DBMS_OUTPUT.PUT_LINE(TO_CHAR(V_MyDate1, 'Month'));
9  V_MyDate1 := ADD_MONTHS(V_MyDate1, 1);
10 IF TO_CHAR(V_MyDate1, 'FMMonth') = V_Abnormal THEN
11 EXIT;
12 END IF;
13 END LOOP;
14* END;
```

SQL> /

Enter value for givedate1: 01-JAN-14

Enter value for givedate2: 01-DEC-14

Enter value for givemonth: October

January

February

March

April

May

June

July

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August
September

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  V_StartRange NUMBER := &StartRange;
  3  V_EndRange NUMBER := &EndRange;
  4  V_Result VARCHAR2(500) := NULL;
  5  BEGIN
  6    DBMS_OUTPUT.PUT_LINE('Illustration of For Loop...!');
  7    FOR MyIndex IN V_StartRange..V_EndRange
  8    LOOP
  9      V_Result := V_Result||' '||V_StartRange;
 10      V_StartRange := V_StartRange + 1;
 11    END LOOP;
 12    DBMS_OUTPUT.PUT_LINE(V_Result);
 13  END;
 14  /
```

Enter value for startrange: 1
Enter value for endrange: 5
Illustration of For Loop...!
1 2 3 4 5

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  V_StartRange NUMBER := &StartRange;
  3  V_EndRange NUMBER := &EndRange;
  4  V_Result VARCHAR2(500) := NULL;
  5  BEGIN
  6    DBMS_OUTPUT.PUT_LINE('Illustration of For Loop...!');
  7    FOR MyIndex IN V_StartRange..V_EndRange
  8    LOOP
  9      V_Result := V_Result||' '||V_StartRange;
 10      V_StartRange := V_StartRange + 1;
 11      DBMS_OUTPUT.PUT_LINE('The Index is : '||MyIndex);
 12    END LOOP;
 13    DBMS_OUTPUT.PUT_LINE(V_Result);
 14  END;
 15  /
```

Enter value for startrange: 1
Enter value for endrange: 5
Illustration of For Loop...!

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```
The Index is : 1
The Index is : 2
The Index is : 3
The Index is : 4
The Index is : 5
1  2  3  4  5
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for startrange: 10
Enter value for endrange: 20
Illustration of For Loop...!
The Index is : 10
The Index is : 11
The Index is : 12
The Index is : 13
The Index is : 14
The Index is : 15
The Index is : 16
The Index is : 17
The Index is : 18
The Index is : 19
The Index is : 20
10 11 12 13 14 15 16 17 18 19 20
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  V_NumFact NUMBER := &GiveNumber;
  3  V_Factorial NUMBER := 1;
  4  BEGIN
  5    FOR IndexI IN 1..V_NumFact
  6    LOOP
  7      V_Factorial := V_Factorial * IndexI;
  8    END LOOP;
  9    DBMS_OUTPUT.PUT_LINE(' The Factorial of ' || V_NumFact || ' is :
'||V_Factorial);
10  END;
11
Enter value for givenumber: 5
The Factorial of 5 is : 120
```

PL/SQL procedure successfully completed.

```
SQL> ED
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```

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```
1  DECLARE
2  V_NumFact NUMBER := &GiveNumber;
3  V_Factorial NUMBER := 1;
4  BEGIN
5    FOR IndexI IN 1..V_NumFact
6    LOOP
7      V_Factorial := V_Factorial * IndexI;
8      DBMS_OUTPUT.PUT_LINE('The Index is : '||IndexI);
9    END LOOP;
10 DBMS_OUTPUT.PUT_LINE(' The Factorial of '||V_NumFact|| ' is :
'||V_Factorial);
11* END;
SQL> /
```

Enter value for givenumber: 5

The Index is : 1

The Index is : 2

The Index is : 3

The Index is : 4

The Index is : 5

The Factorial of 5 is : 120

PL/SQL procedure successfully completed.

```
SQL> DECLARE
2  V_NumFact NUMBER := &GiveNumber;
3  V_Factorial NUMBER := 1;
4  BEGIN
5    FOR IndexI IN REVERSE 1..V_NumFact
6    LOOP
7      V_Factorial := V_Factorial * IndexI;
8      DBMS_OUTPUT.PUT_LINE(' The IndexI Number is '||IndexI);
9    END LOOP;
10 DBMS_OUTPUT.PUT_LINE(' The Factorial of '||V_NumFact|| ' is :
'||V_Factorial);
11 END;
12 /
```

Enter value for givenumber: 5

The IndexI Number is 5

The IndexI Number is 4

The IndexI Number is 3

The IndexI Number is 2

The IndexI Number is 1

The Factorial of 5 is : 120

PL/SQL procedure successfully completed.

SQL> cl scr

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```
SQL> --SAMPLE => S A M P L E
SQL> DECLARE
  2  V_Name VARCHAR2(30);
  3  V_Position VARCHAR2(100) := NULL;
  4  BEGIN
  5  V_Name := '&EnterYourName' ;
  6  FOR I IN 1..LENGTH(V_Name)
  7  LOOP
  8  V_Position := V_Position||' '||SUBSTR(V_Name, I, 1);
  9  END LOOP;
 10  DBMS_OUTPUT.PUT_LINE(V_Position);
 11  END;
 12  /
```

Enter value for enteryourname: SAMPLE
S A M P L E

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

```
 1  DECLARE
 2  V_OuterLoopRange NUMBER := 5;
 3  V_InnerLoopRange NUMBER := 3;
 4  BEGIN
 5  <<OuterLoop>>
 6  FOR MyIndex IN 1..V_OuterLoopRange
 7  LOOP
 8  DBMS_OUTPUT.PUT_LINE('When Outer Loop Index Value = '||MyIndex);
 9      <<InnerLoop>>
10      FOR MyIndex2 IN 1..V_InnerLoopRange
11      LOOP
12      DBMS_OUTPUT.PUT_LINE('Outer Loop Index Value =
||OUTERLOOP.MyIndex||' , '||'Inner Loop Index Value = '||MyIndex2);
13      END LOOP InnerLoop;
14  END LOOP OuterLoop;
15* END;
```

```
SQL> /
When Outer Loop Index Value = 1
Outer Loop Index Value = 1 , Inner Loop Index Value = 1
Outer Loop Index Value = 1 , Inner Loop Index Value = 2
Outer Loop Index Value = 1 , Inner Loop Index Value = 3
When Outer Loop Index Value = 2
Outer Loop Index Value = 2 , Inner Loop Index Value = 1
Outer Loop Index Value = 2 , Inner Loop Index Value = 2
Outer Loop Index Value = 2 , Inner Loop Index Value = 3
```

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```
When Outer Loop Index Value = 3
Outer Loop Index Value = 3 , Inner Loop Index Value = 1
Outer Loop Index Value = 3 , Inner Loop Index Value = 2
Outer Loop Index Value = 3 , Inner Loop Index Value = 3
When Outer Loop Index Value = 4
Outer Loop Index Value = 4 , Inner Loop Index Value = 1
Outer Loop Index Value = 4 , Inner Loop Index Value = 2
Outer Loop Index Value = 4 , Inner Loop Index Value = 3
When Outer Loop Index Value = 5
Outer Loop Index Value = 5 , Inner Loop Index Value = 1
Outer Loop Index Value = 5 , Inner Loop Index Value = 2
Outer Loop Index Value = 5 , Inner Loop Index Value = 3
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  V_OuterLoopRange NUMBER := 5;
  3  V_InnerLoopRange NUMBER := 3;
  4  BEGIN
  5  <<OuterLoop>>
  6  FOR MyIndex IN 1..V_OuterLoopRange
  7  LOOP
  8  DBMS_OUTPUT.PUT_LINE('When Outer Loop Index Value = '||MyIndex);
  9      <<InnerLoop>>
 10      FOR MyIndex2 IN 1..MyIndex
 11      LOOP
 12      DBMS_OUTPUT.PUT_LINE('Outer Loop Index Value =
 13      '||OUTERLOOP.MyIndex||' , '||Inner Loop Index Value = '||MyIndex2);
 14      END LOOP InnerLoop;
 15  END LOOP OuterLoop;
 16  END;
```

```
When Outer Loop Index Value = 1
Outer Loop Index Value = 1 , Inner Loop Index Value = 1
When Outer Loop Index Value = 2
Outer Loop Index Value = 2 , Inner Loop Index Value = 1
Outer Loop Index Value = 2 , Inner Loop Index Value = 2
When Outer Loop Index Value = 3
Outer Loop Index Value = 3 , Inner Loop Index Value = 1
Outer Loop Index Value = 3 , Inner Loop Index Value = 2
Outer Loop Index Value = 3 , Inner Loop Index Value = 3
When Outer Loop Index Value = 4
Outer Loop Index Value = 4 , Inner Loop Index Value = 1
Outer Loop Index Value = 4 , Inner Loop Index Value = 2
Outer Loop Index Value = 4 , Inner Loop Index Value = 3
Outer Loop Index Value = 4 , Inner Loop Index Value = 4
```

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```
When Outer Loop Index Value = 5
Outer Loop Index Value = 5 , Inner Loop Index Value = 1
Outer Loop Index Value = 5 , Inner Loop Index Value = 2
Outer Loop Index Value = 5 , Inner Loop Index Value = 3
Outer Loop Index Value = 5 , Inner Loop Index Value = 4
Outer Loop Index Value = 5 , Inner Loop Index Value = 5
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_OuterLoopRange NUMBER := 5;
3  V_InnerLoopRange NUMBER := 3;
4  BEGIN
5  <<OuterLoop>>
6  FOR MyIndex IN 1..V_OuterLoopRange
7  LOOP
8  DBMS_OUTPUT.PUT_LINE('When Outer Loop Index Value = '||MyIndex);
9  <<InnerLoop>>
10  FOR MyIndex IN 1..MyIndex
11  LOOP
12  DBMS_OUTPUT.PUT_LINE('Outer Loop Index Value =
'||OUTERLOOP.MyIndex||' , '||'Inner Loop Index Value = '||MyIndex);
13  END LOOP InnerLoop;
14  END LOOP OuterLoop;
15* END;
SQL> /
      FOR MyIndex IN 1..MyIndex
      *
```

```
ERROR at line 10:
ORA-06550: line 10, column 20:
PLS-00364: loop index variable 'MYINDEX' use is invalid
ORA-06550: line 7, column 1:
PL/SQL: Statement ignored
```

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_OuterLoopRange NUMBER := 5;
3  V_InnerLoopRange NUMBER := 3;
4  BEGIN
5  <<OuterLoop>>
6  FOR MyIndex IN 1..V_OuterLoopRange
7  LOOP
```

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```
8 DBMS_OUTPUT.PUT_LINE('When Outer Loop Index Value = '||MyIndex);
9 <<InnerLoop>>
10 FOR MyIndex IN 1..OuterLoop.MyIndex
11 LOOP
12 DBMS_OUTPUT.PUT_LINE('Outer Loop Index Value =
'||OUTERLOOP.MyIndex||' , '||'Inner Loop Index Value = '||MyIndex);
13 END LOOP InnerLoop;
14 END LOOP OuterLoop;
15* END;
```

SQL> /

```
When Outer Loop Index Value = 1
Outer Loop Index Value = 1 , Inner Loop Index Value = 1
When Outer Loop Index Value = 2
Outer Loop Index Value = 2 , Inner Loop Index Value = 1
Outer Loop Index Value = 2 , Inner Loop Index Value = 2
When Outer Loop Index Value = 3
Outer Loop Index Value = 3 , Inner Loop Index Value = 1
Outer Loop Index Value = 3 , Inner Loop Index Value = 2
Outer Loop Index Value = 3 , Inner Loop Index Value = 3
When Outer Loop Index Value = 4
Outer Loop Index Value = 4 , Inner Loop Index Value = 1
Outer Loop Index Value = 4 , Inner Loop Index Value = 2
Outer Loop Index Value = 4 , Inner Loop Index Value = 3
Outer Loop Index Value = 4 , Inner Loop Index Value = 4
When Outer Loop Index Value = 5
Outer Loop Index Value = 5 , Inner Loop Index Value = 1
Outer Loop Index Value = 5 , Inner Loop Index Value = 2
Outer Loop Index Value = 5 , Inner Loop Index Value = 3
Outer Loop Index Value = 5 , Inner Loop Index Value = 4
Outer Loop Index Value = 5 , Inner Loop Index Value = 5
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
2 V_Empno NUMBER := &EnterEmpno;
3 V_EName VARCHAR2(30);
4 V_Job VARCHAR2(30);
5 V_Sal NUMBER(7, 2);
6 BEGIN
7 SELECT
8 Ename, Job, Sal
9 INTO
10 V_Ename, V_Job, V_Sal
11 FROM Emp
12 WHERE Empno = V_Empno;
13 DBMS_OUTPUT.PUT_LINE('The Name : '||V_Ename);
```

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```
14 DBMS_OUTPUT.PUT_LINE('The Job : '||V_Job);
15 DBMS_OUTPUT.PUT_LINE('The Sal: '||V_Sal);
16 END;
17 /
```

Enter value for enterempno: 7839

The Name : KING

The Job : PRESIDENT

The Sal: 5000

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Empno          NUMBER(4):=&EnterEmpno;
3 V_EName          VARCHAR2(30);
4 V_Sal            NUMBER(7,2);
5 V_Comm           NUMBER(7,2);
6 BEGIN
7 SELECT
8 EName, Sal, Comm
9 INTO V_EName, V_Sal, V_Comm
10 FROM EMP
11 WHERE Empno = V_Empno;
12 DBMS_OUTPUT.PUT_LINE('The Name : '||INITCAP(V_EName));
13 DBMS_OUTPUT.PUT_LINE('The Salary : '||TO_CHAR(V_Sal, '99,999.99'));
14 DBMS_OUTPUT.PUT_LINE('The Commission : '||NVL(TO_CHAR(V_Comm), 'No
Commission'));
15 DBMS_OUTPUT.PUT_LINE('The Total Sal is : '||TO_CHAR(V_Sal +
NVL(V_Comm, 0)));
16* END;
SQL> /
```

Enter value for enterempno: 7654

The Name : Martin

The Salary : 1,250.00

The Commission : 1400

The Total Sal is : 2650

PL/SQL procedure successfully completed.

SQL> SPOOL OFF

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